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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/050,195	01/16/2002	Sang-Bom Kang	5649-912	6301	
20792	7590 10/23/2002				
MYERS BIO	GEL SIBLEY & SAJO	EXAMINER			
PO BOX 37428 RALEIGH, NC 27627			IM, JUNGHWA M		
			ART UNIT	PAPER NUMBER	
			2811		
			DATE MAILED: 10/23/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	—— (Mv
•	•	10/050,195	KANG ET AL.	
Office Action Summary		Examiner	Art Unit	
		Junghwa M. Im	2811	
	The MAILING DATE of this communication a		1	ess
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a re period for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by state eply received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I.  1.136(a). In no event, however, may a reply be sply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS foute. cause the application to become ABANCO	e timely filed  days will be considered timely. rom the mailing date of this com.	munication.
1)⊠	Responsive to communication(s) filed on 16	6 January 2002 .		
2a) <u></u> □	This action is <b>FINAL</b> . 2b)	This action is non-final.		
3) <u> </u>	Since this application is in condition for allow closed in accordance with the practice under on of Claims	wance except for formal matters, er <i>Ex parte Quayle</i> , 1935 C.D. 11	prosecution as to the 1, 453 O.G. 213.	merits is
4)⊠	Claim(s) 1-44 is/are pending in the application	on.		
	4a) Of the above claim(s) is/are withdr	rawn from consideration.		
5)	Claim(s) is/are allowed.			
6)	Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)🖂	Claim(s) 1-44 are subject to restriction and/o	r election requirement.		
Application	on Papers			
9) 🗌 7	The specification is objected to by the Examir	ner.		
10) 🔲 <b>T</b>	he drawing(s) filed on is/are: a)□ acc	epted or b) objected to by the E	xaminer.	
	Applicant may not request that any objection to the	the drawing(s) be held in abeyance.	See 37 CFR 1.85(a).	
11) 🔲 T	he proposed drawing correction filed on	is: a)∏ approved b)∏ disapp	proved by the Examiner.	
	If approved, corrected drawings are required in r	• •		
	he oath or declaration is objected to by the E	xaminer.		
riority u	nder 35 U.S.C. §§ 119 and 120			
13)⊠	Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. § 119	9(a)-(d) or (f).	
a)[2	All b) Some * c) None of:			
	<ol> <li>Certified copies of the priority documer</li> </ol>	nts have been received.		
;	<ol><li>Certified copies of the priority documer</li></ol>	nts have been received in Applica	ation No	
	<ol> <li>Copies of the certified copies of the price application from the International Bee the attached detailed Office action for a lis</li> </ol>	ureau (PCT Rule 17.2(a)).		age
14) 🗌 Ad	cknowledgment is made of a claim for domes	tic priority under 35 U.S.C. § 119	e(e) (to a provisional ap	plication).
	☐ The translation of the foreign language processes a claim for domest the complex transfer is made of a claim for domest transfer in the complex transfer is made of a claim for domest transfer in the complex transfer is the complex transfer in the complex transfer is the complex transfer in the complex transfer in the complex transfer is the complex transfer in			
ttachment(				
) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ary (PTO-413) Paper No(s). al Patent Application (PTO-1	
Patent and Tra D-326 (Rev		Action Summary	Part of Pa	mor No. 4

Application/Control Number: 10/050,195

Art Unit: 2811

## **DETAILED ACTION**

## Election/Restrictions

Note that Application contains claims with two distinctive classes, and claims of each group with a different class contain patentably distinct species.

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claim 1-14, and 25-32 drawn to a semiconductor device, classified in class 257, subclass 767.
  - II Claims 15-24, and 33-44 drawn to a method of fabricating a semiconductor device, classified in class 438, subclass 686.
- 2. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as product made and process of making. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For example, the claimed device can have any contact plug like a tungsten layer rather than a titanium layer which is specified in the claimed process.

Application/Control Number: 10/050,195

Art Unit: 2811

3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Page 3

- 4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining on the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Should Applicant elect Group claims I to be examined, Applicant is advised that this application is further restricted because it contains product claims 1-14 and 25-32 directed to the following patentably distinctive species of the claimed invention.

Embodiment 1 of Figure 1

Embodiment 2 of Figure 2

7. Should Applicant elect Group claims II to be examined, Applicant is advised that this application is further restricted because it contains product claims 15-24 and 33-44 directed to the following patentably distinctive species of the claimed invention.

Embodiment 1 of Figure 3A-3E

Application/Control Number: 10/050,195

Art Unit: 2811

Embodiment 2 of Figure 4A-4D

8. Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none is generic for both groups.

Page 4

- 9. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.
- 10. Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).
- .11. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Junghwa M. Im whose telephone number is (703) 305-3998. The examiner can normally be reached on MON.-FRI. 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JMI October 24, 2002

Sara Crane
Primary Examiner

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